

Appendix A.2
2004 303(d) Listed Waters

APPENDIX A.2 2004 303(d) LISTED WATERS FOR WRIA 5 – STILLAGUAMISH WATERSHED

The 2004 303(d) listing for WRIA 5, the Stillaguamish Watershed, is given in the following pages. The list and further information is also available at the Washington State Department of Ecology website, at:

http://www.ecy.wa.gov/programs/wq/303d/2002/2004_documents/list_by_category-cat5.html

2004 Water Quality Assessment (Final) - Category 5 Listings for WRIA 5

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information	Parameter	Remarks	Medium
5	6444	5	N	CANYON CREEK Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 20.6 for week ending 15 August 2001 at station 05C01 (Canyon Creek nr mouth).	RR46TS 1.488 30N 07E 06	Temperature		Water
5	15568	5	N	CANYON CREEK Stillaguamish Tribe unpublished data shows a 7-day mean of daily maximum values of 19.99 at the station 77 (Canyon Creek near mouth) in 2001.	RR46TS 0 30N 06E 12	Temperature		Water
5	15569	5	N	CANYON CREEK Stillaguamish Tribe unpublished data shows a 7-day mean of daily maximum values of 19.72 at the station 43 (Canyon Creek @ Masonic Park) in 2001.	RR46TS 8.219 30N 07E 03	Temperature		Water
5	9777	5	N	COOK SLOUGH Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TCOOK (COOK SLOUGH AT HWY 530 BRIDGE) shows the geometric mean of 132 exceeds the criterion and that 60 % of the samples exceeds the percentile criterion from 5 samples collected during 2001. Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TCOOK (COOK SLOUGH AT HWY 530 BRIDGE) shows the geometric mean of 32 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 2 samples collected during 2000.	DC37MN 0.136 31N 04E 01	Fecal Coliform		Water
5	6454	5	Y	DEER CREEK Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 21.5 for week ending 15 August 2001 at station 05D01 (Deer Creek at Bunker house).	PA13UD 0.049 32N 07E 08	Temperature		Water
5	6455	5	Y	DEER CREEK Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 22.6 for week ending 15 August 2001 at station 05D03 (Deer Creek abv Little Deer).	PA13UD 21.599 34N 07E 35	Temperature	TRS updated from 1998 List, was 34N-07E-36. -kk	Water
5	7188	5	N	DEER CREEK Sullivan, et al. 1990., multiple excursions beyond the criterion at RM 14 during 8/88.	PA13UD 25.16 33N 07E 01	Temperature	Continuous temperature measurements were taken, but data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.	Water

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Remarks	Medium
5	21970	5	N	GLADE BEKKEN	FJ67XF 0.762 31N 04E 03	Fecal Coliform		Water
<p>Snohomish County unpublished data from station TR30 (ON SILVANA TERRACE ROAD BY WAVERLY GARDENS NURSERY) shows a geometric mean of 207 cfu/100mL with 55% of samples exceeding the percentile criterion from 11 samples collected in 1998.</p> <p>Snohomish County unpublished data from station TR30 (ON SILVANA TERRACE ROAD BY WAVERLY GARDENS NURSERY) shows a geometric mean of 158 cfu/100mL with 50% of samples exceeding the percentile criterion from 8 samples collected in 2002.</p> <p>Snohomish County unpublished data from station TR30 (ON SILVANA TERRACE ROAD BY WAVERLY GARDENS NURSERY) shows a geometric mean of 127 cfu/100mL with 42% of samples exceeding the percentile criterion from 12 samples collected in 2001.</p> <p>Snohomish County unpublished data from station TR30 (ON SILVANA TERRACE ROAD BY WAVERLY GARDENS NURSERY) shows a geometric mean of 125 cfu/100mL with 27% of samples exceeding the percentile criterion from 11 samples collected in 1999.</p> <p>Snohomish County unpublished data from station TR30 (ON SILVANA TERRACE ROAD BY WAVERLY GARDENS NURSERY) shows a geometric mean of 81 cfu/100mL with 25% of samples exceeding the percentile criterion from 12 samples collected in 2000.</p> <p>Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TGLAD (GLADE BEKKEN) shows the geometric mean of 21 does not exceed the criterion and that 0 % of the samples does not exceed the percentile;</p> <p>Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TGLAD (GLADE BEKKEN) shows the geometric mean of 1952 exceeds the criterion and that 100 % of the samples exceeds the percentile criterion fr;</p>								
5	7198	5	Y	HIGGINS CREEK	BH79GG 1.583 32N 07E 20	Temperature		Water
<p>Sullivan, et al. 1990, 22 excursions beyond the criterion during 8/88.</p> <p>Continuous temperature measurements were taken, but data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.</p>								
5	43042	5	N	IRVINE SLOUGH	HS19KT 0 32N 03E 24	Fecal Coliform		Water
<p>Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TIRVIN (IRVINE SLOUGH AT TIDE GATE) shows the geometric mean of 1329.86 exceeds the criterion and that 6 of 6 samples (100.0%) exceeded the percentile criterion in year 2001; and 3 of 3 samples (100.0%) exceeded the percentile criterion in year 2000.</p>								
5	6445	5	N	JIM CREEK	JU33JU 0 31N 06E 07	Temperature		Water
<p>Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 19.5 for week ending 15 August 2001 at station 05J01 (Jim Creek at mouth).</p>								
5	15570	5	N	JIM CREEK	JU33JU 0.174 31N 06E 08	Temperature		Water
<p>Stillaguamish Tribe unpublished data shows a 7-day mean of daily maximum values of 19.47 at the station 59 (Jim Creek @ Jordan Rd.) in 2001.</p> <p>Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TJIMCK (JIM CREEK AT JORDAN ROAD) shows 0 excursions beyond the criterion out of 4 samples collected between 08/00 - 11/01 .</p>								

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information	Parameter	Remarks	Medium
5	15571	5	N	JIM CREEK Stillaguamish Tribe unpublished data shows a 7-day mean of daily maximum values of 18.98 at the station 160 (Jim Creek @ Whites Rd) in 2001.	JU33JU 4.411 31N 06E 16	Temperature		Water
5	7238	5	Y	JORGENSON SLOUGH (CHURCH CREEK) Paulsen et al. 1991 , 4 excursions beyond the criterion at RM 4.0, measured between 9/89 and 5/91.	GH05SX 6.581 32N 04E 16	Dissolved oxygen	Referenced data on dissolved oxygen is not in the administrative record. The water segment is listed as Category 5 based on the 1998 assessment.	Water
5	9780	5	N	KACKMAN CREEK Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TKACK (AT KACKMAN CREEK ON 252 ST NE) shows the geometric mean of 252 exceeds the criterion and that 25 % of the samples exceeds the percentile criterion from 4 samples collected during 2001. Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TKACK (AT KACKMAN CREEK ON 252 ST NE) shows the geometric mean of 32 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 1 samples collected during 2000.	XB43NX 1.467 32N 05E 28	Fecal Coliform		Water
5	9239	5	N	KACKMAN CREEK Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TKACK (AT KACKMAN CREEK ON 252 ST NE) shows 3 excursions beyond the criterion out of 6 samples collected between 08/00 - 11/01 .	XB43NX 1.467 32N 05E 28	pH	Low pH	Water
5	6456	5	Y	LITTLE DEER CREEK Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 20.9 for week ending 15 August 2001 at station 05LD01 (Little Deer at mouth). Sullivan, et al. 1990, 15 excursions beyond the criterion during 8/88.	EX67XM 0 34N 07E 35	Temperature		Water
5	9781	5	N	MARCH CREEK Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMARSH (MOUTH OF MARCH CREEK) shows the geometric mean of 799 exceeds the criterion and that 75 % of the samples exceeds the percentile criterion from 8 samples collected during 2001. Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMARSH (MOUTH OF MARCH CREEK) shows the geometric mean of 48 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 1 samples collected during 2000.	WI88QF 0 31N 05E 09	Fecal Coliform		Water
5	9784	5	N	MILLER CREEK Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMILLR (MOUTH OF MILLER CREEK) shows the geometric mean of 1282 exceeds the criterion and that 100 % of the samples exceeds the percentile criterion from 5 samples collected during 2001. Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMILLR (MOUTH OF MILLER CREEK) shows the geometric mean of 123 exceeds the criterion and that 50 % of the samples exceeds the percentile criterion from 2 samples collected during 2000.	KX60NO 0 32N 04E 32	Fecal Coliform		Water

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5	15559	5	N	OLD STILLAGUAMISH RIVER Stillaguamish Tribe unpublished data shows a 7-day mean of daily maximum values of 24.8 at the station 145 (Old Stillaguamish Channel @ Florence) in 2001.	QE93BW 7.009 32N 04E 29	Temperature		Water
5	15560	5	N	OLD STILLAGUAMISH RIVER Stillaguamish Tribe unpublished data shows a 7-day mean of daily maximum values of 23.24 at the station 90 (Old Stillaguamish Channel @ Peterson Bridge) in 2001. Stillaguamish Tribe unpublished data shows a 7-day mean of daily maximum values of 22.41 at the station 135 (Old Stillaguamish Channel above Hatt Slough) in 2001.	QE93BW 7.111 32N 04E 32	Temperature		Water
5	8230	5	N	OLD STILLY CHANNEL, WEST PASS Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TWEST (WEST PASS AT HWY 532 BR) shows the geometric mean of 189.32 exceeds the criterion and that 2 of 6 samples (33.3%) exceeded the percentile criterion in year 2001.	XF13JD 0 32N 03E 99	Fecal Coliform	Basis updated on 3/24/05. Information was inaccurate and truncated. No change to category.--cb	Water
5	9789	5	N	PILCHUCK CREEK Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TPILCH (PILCHUCK CREEK @ JACKSON GULCH RD) shows the geometric mean of 76 does not exceed the criterion and that 12 % of the samples exceeds the percentile criterion from 8 samples collected during 2000. Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TPILCH (PILCHUCK CREEK @ JACKSON GULCH RD) shows the geometric mean of 144 exceeds the criterion and that 25 % of the samples exceeds the percentile criterion from 4 samples collected during 2001. Snohomish County unpublished data from station PILC (NEAR MOUTH ON JACKSON GULCH ROAD) shows a geometric mean of 26 cfu/100mL with 29% of samples exceeding the percentile criterion from 7 samples collected in 2002. Snohomish County unpublished data from station PILC (NEAR MOUTH ON JACKSON GULCH ROAD) shows a geometric mean of 67 cfu/100mL with 27% of samples exceeding the percentile criterion from 11 samples collected in 2000. Snohomish County unpublished data from station PILC (NEAR MOUTH ON JACKSON GULCH ROAD) shows a geometric mean of 50 cfu/100mL with 18% of samples exceeding the percentile criterion from 11 samples collected in 1998. Snohomish County unpublished data from station PILC (NEAR MOUTH ON JACKSON GULCH ROAD) shows a geometric mean of 23 cfu/100mL with 8% of samples exceeding the percentile criterion from 12 samples collected in 1999. Snohomish County unpublished data from station PILC (NEAR MOUTH ON JACKSON GULCH ROAD) shows a geometric mean of 28 cfu/100mL with 0% of samples exceeding the percentile criterion from 12 samples collected in 2001.	VJ74AO 0.155 32N 05E 31	Fecal Coliform		Water
5	6447	5	N	PILCHUCK CREEK Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 20.8 for week ending 15 August 2001 at station 05P04 (Pilchuck Creek blw Bear C).	VJ74AO 25.759 33N 06E 17	Temperature		Water
5	6448	5	N	PILCHUCK CREEK Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 21.5 for week ending 15 August 2001 at station 05P02 (Pilchuck Creek at SR9).	VJ74AO 7.78 32N 05E 16	Temperature		Water

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5	6449	5	Y	PILCHUCK CREEK Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 21.7 for week ending 15 August 2001 at station 05P01 (Pilchuck Creek at I-5). Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TPILCH (PILCHUCK CREEK @ JACKSON GULCH RD) shows 0 excursions beyond the criterion out of 13 samples collected between 08/00 - 11/01.	VJ74AO 0.155 32N 05E 31	Temperature		Water
5	6450	5	N	PILCHUCK CREEK Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 22.4 for week ending 15 August 2001 at station 05P03 (Pilchuck Creek blw Crane).	VJ74AO 17.203 33N 05E 27	Temperature		Water
5	8638	5	Y	PORTAGE CREEK Plotnikoff and Michaud, 1991. Turbidity standards were exceeded at RM 3.7 during the wet season in 1989.	OT80TY 4.938 31N 05E 17	Turbidity		Water
5	8639	5	Y	PORTAGE CREEK Plotnikoff and Michaud, 1991. Turbidity standards were exceeded at RM 7.3 during both the dry and wet season in 1989.	OT80TY 11.548 31N 05E 11	Turbidity		Water
5	8231	5	N	SOUTH PASS SLOUGH Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TSOUTH (SOUTH PASS) shows the geometric mean of 50 exceeds the criterion and that 100 % of the samples exceeds the percentile criterion from 21 samples collected during 2001. Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TSOUTH (SOUTH PASS) shows the geometric mean of 32 exceeds the criterion and that 100 % of the samples exceeds the percentile criterion from 2 samples collected during 2000.	UJ01AO 0 32N 03E 99	Fecal Coliform		Water
5	6452	5	N	STILLAGUAMISH RIVER Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 21.4 for week ending 15 August 2001 at station 05M02 (Mainstem Stilly at Larson).	KP14NJ 0 31N 04E 02	Temperature		Water
5	6453	5	N	STILLAGUAMISH RIVER Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 21.8 for week ending 15 August 2001 at station 05M03 (Mainstem Stilly at Norman).	QE93BW 17.221 31N 04E 02	Temperature		Water

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information	Parameter	Remarks	Medium
5	6565	5	Y	STILLAGUAMISH RIVER Dept. of Ecology unpublished data from core ambient monitoring station 05A070 (Stillaguamish R. near Silvana) shows a 7-day mean of daily maximum values of 21.6 for mid-week 12 August 2001. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A070 (STILLAGUAMISH RIVER NEAR SILVANA) shows 4 excursions beyond the criterion out of 61 samples collected between 1993 - 2001 Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TPILUP (UPSTREAM OF PILCHUCK CREEK MOUTH) shows 0 excursions beyond the criterion out of 1 samples collected between 08/00 - 11/01. Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMS11 (MAIN STILLY CHANNEL AT I-5 BRIDGE) shows 1 excursions beyond the criterion measured on these dates: 01/07/12,	QE93BW 23.077 31N 05E 06	Temperature		Water
5	7244	5	Y	STILLAGUAMISH RIVER Snohomish County unpublished data from station MSAR (AT HIGHWAY 9 BRIDGE NEAR ARLINGTON) show excursions beyond the criterion from measurements collected in 1998. Thornburgh, 1996, 3 excursions beyond criterion out of 38 samples (8%) at station MSAR between 1992 and 1997. Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TCONFL (CONFLUENCE OF N AND S STILLY FORKS) shows 1 excursions beyond the criterion measured on this date: 01/07/11. Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMIXZO (MIXING ZONE OF N AND S STILLY FORKS) shows 1 excursions beyond the criterion measured on this date: 01/07/11.	QE93BW 35.996 31N 05E 02	Temperature	Changed from Category 2 to Category 5 on 01/21/05 due to consolidation with Listing ID 40802 (cat 2) and -kk Information submitted in 1996 is insufficient to support a Category 5 listing. No raw data appear in the 1996 The daily maximum excursion in 2001 is for one year only and does not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further and monitoring indicates the status of the water.	Water
5	6446	5	N	STILLAGUAMISH RIVER, N.F. Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 22.1 for week ending 15 August 2001 at station 05NF02 (N.F. Stilly abv Cicero br). Stillaguamish Tribe unpublished data shows a 7-day mean of daily maximum values of 21.69 at the station 119 (N.F. Stillaguamish (Twin Rivers Park) (Thermograph site)) in 2001. Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TNFTWI (N FORK STILLY @ TWIN RIVERS PARK) shows 1 excursions beyond the criterion measured on these dates: 01/07/11,	WO38NV 0 31N 05E 02	Temperature		Water
5	6457	5	N	STILLAGUAMISH RIVER, N.F. Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 18 for week ending 15 August 2001 at station 05NF06 (N.F. Stilly nr FR28).	WO38NV 54.765 32N 09E 10	Temperature		Water
5	6458	5	N	STILLAGUAMISH RIVER, N.F. Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 19.6 for week ending 15 August 2001 at station 05NF07 (N.F. Stilly abv Crevice C).	WO38NV 60.643 33N 09E 22	Temperature		Water

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5	6567	5	N	STILLAGUAMISH RIVER, N.F. Dept. of Ecology unpublished data from core ambient monitoring station 05B070 (Stillaguamish R. N.F. at Cicero) shows a 7-day mean of daily maximum values of 20.7 for mid-week 12 August 2001.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B070 (N) shows 0 excursions beyond the criterion out of 50 samples collected between 1993 - 2001 Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TNFCIC (NORTH FORK STILLY @ CICERO BRIDGE) shows 0 excursions beyond the criterion out of 9 samples collected between 08/00 - 11/01 .	WO38NV 15.141 32N 06E 15	Temperature		Water
5	6568	5	N	STILLAGUAMISH RIVER, N.F. Dept. of Ecology unpublished data from core ambient monitoring station 05B110 (Stillaguamish R. N.F. near Darrington) shows a 7-day mean of daily maximum values of 18.2 for mid-week 12 August 2001.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B110 (N. FORK STILLAGUAMISH NEAR DARRINGTON) shows 0 excursions beyond the criterion out of 49 samples collected between 1993 - 2001	WO38NV 47.792 32N 09E 07	Temperature		Water
5	15567	5	N	STILLAGUAMISH RIVER, N.F. Stillaguamish Tribe unpublished data shows a 7-day mean of daily maximum values of 20.04 at the station 14 (NF Stillaguamish @ Whitman Bridge) in 2001. Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TNFWHI (N FORK STILLY @ WHITMAN BRIDGE) shows 0 excursions beyond the criterion out of 10 samples collected between 08/00 - 11/01 .	WO38NV 26.448 32N 07E 10	Temperature		Water
5	15572	5	N	STILLAGUAMISH RIVER, N.F. Stillaguamish Tribe unpublished data shows a 7-day mean of daily maximum values of 18.62 at the station (NF Stillaguamish at C-Post bridge) in 2001.	WO38NV 33.737 32N 08E 06	Temperature		Water
5	15912	5	N	STILLAGUAMISH RIVER, N.F. Hallock, 2002. shows 33 excursions beyond the criterion out of 56 samples collected between 1992 and 2001 derived by the difference between the upstream station 05B110 (NF Stillaguamish nr Darring.) and the downstream station 05B070 (NF Stillaguamish @ Cicero).	WO38NV 15.141 32N 06E 15	Turbidity		Water
5	6451	5	N	STILLAGUAMISH RIVER, S.F. Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 22.1 for week ending 15 August 2001 at station 05SF02 (S.F. Stilly at River Mead).	SN06ZT 7.659 31N 06E 18	Temperature		Water
5	6459	5	N	STILLAGUAMISH RIVER, S.F. Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 21.3 for week ending 15 August 2001 at station 05SF05 (S.F. Stilly at Verlot). Stillaguamish Tribe unpublished data shows a 7-day mean of daily maximum values of 20.93 at the station 166 (S.F. Stillaguamish at Bridge above Benson Creek) in 2001.	SN06ZT 45.236 30N 08E 16	Temperature		Water

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5	6460	5	N	STILLAGUAMISH RIVER, S.F. Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 23.4 for week ending 26 July 2001 at station 05SF04 (S.F. Stilly at Robe).	SN06ZT 42.604 30N 08E 08	Temperature		Water
5	6566	5	Y	STILLAGUAMISH RIVER, S.F. Dept. of Ecology unpublished data from core ambient monitoring station 05A090 (Stillaguamish R. S.F. at Arlington) shows a 7-day mean of daily maximum values of 22.6 for mid-week 12 August 2001.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A090 (N) shows 2 excursions beyond the criterion out of 50 samples collected between 1993 - 2001 Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TSFTWI (S FORK STILLY @ TWIN RIVERS PARK) shows 1 excursions beyond the criterion measured on these dates: 01/07/11, Stillaguamish Tribe unpublished data shows a 7-day mean of daily maximum values of 22.54 at the station 115 (S.F. Stillaguamish (Twin Rivers Park) (Thermograph site)) in 2001.	SN06ZT 0 31N 05E 02	Temperature		Water
5	10587	5	Y	STILLAGUAMISH RIVER, S.F. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A110 (S. FORK STILLY NEAR GRANITE FALLS) shows 3 excursions beyond the criterion out of 49 samples collected between 1993 - 2001 measured on these dates: 95/07/18, 96/07/23, 97/08/18,	SN06ZT 26.213 30N 07E 07	Temperature		Water
5	40865	5	Y	SUNDAY LAKE Rector, 1996, describes impairment of aesthetic uses (odor and excessive aquatic plants) and fisheries. The lake productivity is limited by nitrogen in the spring and phosphorus in the summer. The reference identifies nutrient sources from septic systems, lakeshore lawn fertilizing, logging and agricultural practices in the watershed.	350KXK 32N 04E 26	Total Nitrogen		Water
5	8637	5	Y	SUNDAY LAKE Rector, 1996, describes impairment of aesthetic uses (odor and excessive aquatic plants) and fisheries. The lake productivity is limited by nitrogen in the spring and phosphorus in the summer. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 17 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	350KXK 32N 04E 26	Total Phosphorus	While the lake productivity is limited by both nitrogen and phosphorus, only phosphorus is listed as the favored nutrient to control algal biomass in freshwater. Since atmospheric nitrogen can be fixed by eutrophic algal species, the strategy of managing total phosphorus is the preferred management option supported in the literature. Smohomish County's 2003 State of the Lakes Report identifies the lake as "impaired" and in need of restoration because of the nuisance algae and excessive aquatic plants. Summer epilimnetic total phosphorus concentrations are often exceeding 40 ug/l, hypolimnion values often exceed 100ug/l. The lake suffers from regular, nuisance algal in response to elevated nutrient levels.	Water

high,
blooms

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information	Parameter	Remarks	Medium
5	8227	5	N	UNNAMED CREEK Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TWARUP (UPSTREAM OF EFFLUENT AT WARM BEACH) shows the geometric mean of 54 does not exceed the criterion and that 27 % of the samples exceeds the percentile criterion from 11 samples collected during 2001. Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TWARUS (ABOVE STABLES AT WARM BEACH) shows the geometric mean of 49 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 1 samples collected during 2001.	IE90YH 0.004 31N 04E 07	Fecal Coliform		Water
5	43046	5	N	UNNAMED CREEK Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TWARSL (WARM BEACH POND TO SLOUGH) aka WARM BEACH shows the geometric mean of 220.78 exceeds the criterion and that 6 of 10 samples (60.0%) exceeded the percentile criterion in year 2001.	IE90YH 0.004 31N 04E 07	Fecal Coliform		Water